

What is claimed is:

1. A control circuit board comprising:

a connecting portion to be connected to an external circuit,
wherein the connecting portion is configured such that an end portion of the control circuit board is formed with a cut which is opened sideways and is coated with a conductor layer in such a manner that an inner side surface of the cut is covered with the conductor layer, the conductor layer is connected to a circuit that is incorporated in the control circuit board.

2. A circuit structural body comprising:

a plurality of bus bars that are part of a power circuit are bonded to a surface of a control circuit board in a state that the bus bars are arranged approximately in the same plane, the control circuit board including a connecting portion to be connected to an external circuit, the connecting portion is configured such that an end portion of the control circuit board is formed with a cut which is opened sideways and is coated with a conductor layer in such a manner that an inner side surface of the cut is covered with the conductor layer, the conductor layer is connected to a circuit that is incorporated in the control circuit board,

wherein a particular one of the bus bars is electrically connected to the circuit incorporated in the control circuit board by soldering in which solder is supplied so as to bridge

an inner circumferential surface of the conductor layer of the control circuit board and a surface of the particular bus bar in a state that a coating portion of the conductor layer is laid on the particular bus bar.

3. The circuit structural body according to claim 2, wherein a switching element is provided in the power circuit including the bus bars,

the control circuit board incorporates a control circuit for controlling driving of the switching element, and

the switching element is mounted so as to bridge the bus bar and the control circuit board.

4. The circuit structural body according to claim 2, wherein a plurality of bus bars project sideways from the control circuit board to serve as terminals to be connected to the external circuit, and

at least part of the bus bars to serve as the terminals are electrically connected to the conductor layers by soldering.

5. The circuit structural body according to claim 4, wherein the bus bars to serve as the terminals are bent in the same direction that is generally perpendicular to the control circuit board.

6. The circuit structural body according to claim 4, wherein the terminals include signal input terminals to which instruction signals are input externally, and

the bus bars to serve as the signal input terminals are electrically connected to the conductor layers.

7. A method for connecting a control circuit board to an external circuit in which the control circuit board is electrically connected to conductors that are part of the external circuit, the control circuit board including a connecting portion to be connected to the external circuit, the connecting portion is configured such that an end portion of the control circuit board is formed with a cut which is opened sideways and is coated with a conductor layer in such a manner that an inner side surface of the cut is covered with the conductor layer, the conductor layer is connected to a circuit that is incorporated in the control circuit board, the method comprising:

laying the conductor and a coating portion of the conductor layer one on another; and

soldering in which solder is supplied so as to bridge the inner circumferential surface of the conductor layer and a surface of the conductor in a state that the conductor and the coating portion of the conductor layer are laid one on another.